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September 1964

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48 Pages

CENTRAL INTELLIGENCE AGENCY  
PHOTOGRAPHIC INTELLIGENCE REPORT

SOVIET-TYPE SAM INSTALLATIONS,  
WACS 336 THROUGH 340, 380, 381, 383, 384,  
427, 447, 448, 560, 567, 585 THROUGH 587,  
647, AND 982



Declass Review by NIMA/DOD



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GROUP 1  
Excluded from automatic  
downgrading and declassification

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## PREFACE

This is the ninth, and last, in a series of reports prepared in response to CIA requirement C-RR3-80-733, presenting locational and other pertinent information on all Soviet-type surface-to-air missile (SAM) installations. 1-8/ Installations included are SAM launch sites (SA-1, SA-2, SA-3, and SA-0), antimissile-missile activities, SAM support facilities, SAM R & D and training facilities, and un-

identified installations, possibly SAM-related. The information is presented by World Aeronomical Chart (WAC), and within each WAC by SAM defense area, as determined from photography and collateral sources. When the defense function of an installation cannot be determined, this is so indicated. Where no installations have been identified in a WAC area, that WAC has been omitted.

## INTRODUCTION

This report presents information on all Soviet-type SAM installations located in the areas covered by WACs 336, 337, 338, 339, 340, 380, 381, 383, 384, 427, 447, 448, 560, 567, 585-587, 647, and 982 and identification photography. The cutoff date for this information is [redacted]. Figure 1 shows all the WAC areas, except Cuba, which have been covered in this series; those in red are covered in this report. WACs covered in the previous reports are outlined in red, and the report numbers are indicated on the graphite. Figure 2 shows Cuba which is covered in this report. Diagrams of the configurations of the common types of SAM installations are presented in Figure 3. Information for each WAC is shown in a table (Tables 1-9), which gives detailed data, and a map (Figures 4-22), which indicates the location and type of each SAM installation. Because of the volume of data for Table 16, Figure 19 has been repeated for easier reference.

Explanations of the columnar headings used in the tables are as follows:

Ref. - Given in numerical sequence for each WAC.

with numbers assigned to installations arbitrarily, and keyed to the accompanying WAC.

Name, Site Designator, BI, Number - In accordance with the TDA. Absence of any of this information indicates that it was not available at the time of publication.

Coordinates - Given in degrees, minutes, and seconds, and plotted from series 200 US Air Target Charts unless otherwise indicated in next column.

Country & Map Reference - BI; country codes used. Map reference is to the Air Target Chart sheet number (scale 1:200,000) unless otherwise indicated.

Type & Configuration - Indicates the type of SAM installation and its configuration as illustrated in Figure 2.

Mission & Date First Appears - Gives the number and date of the mission on which the installation was first sighted.

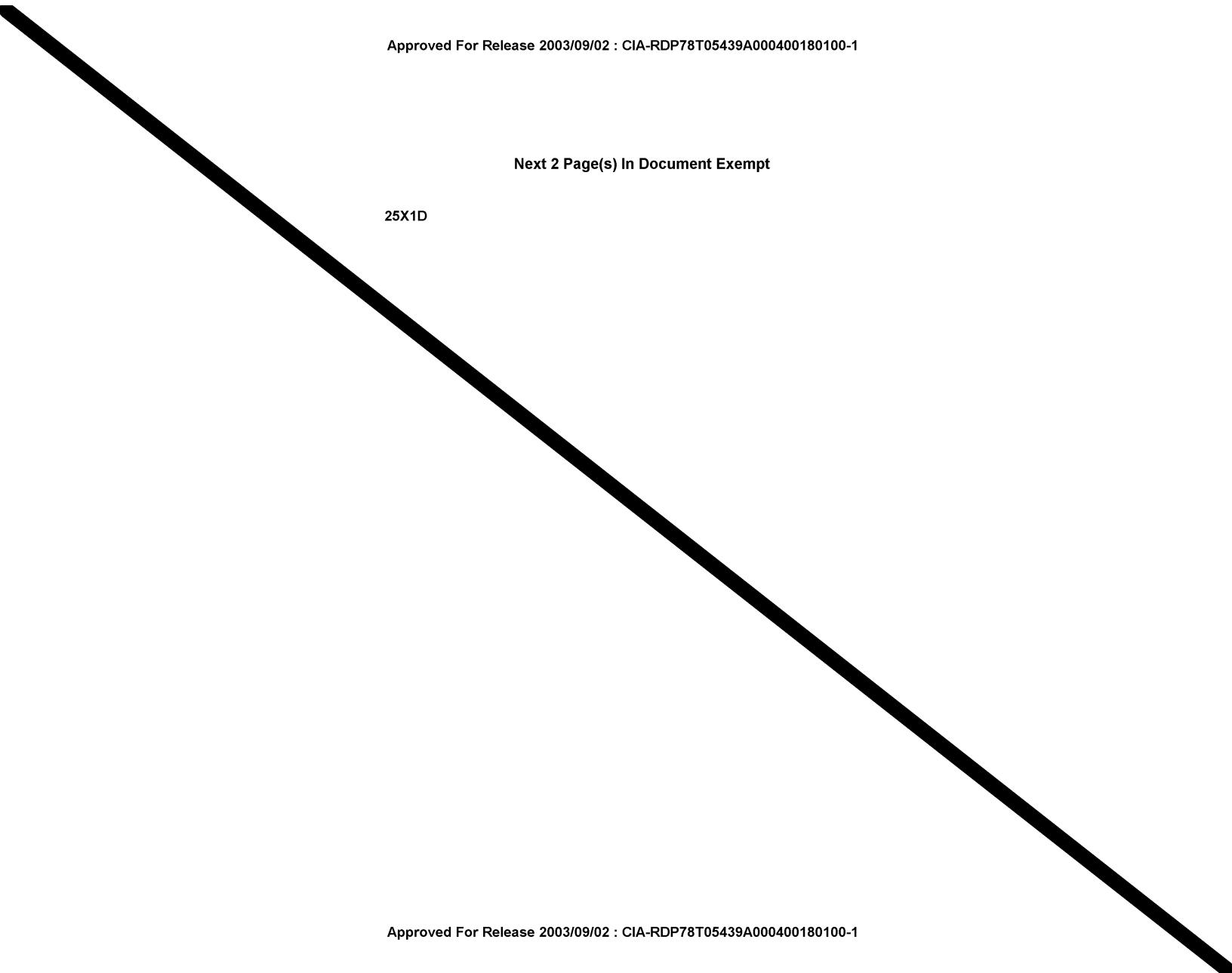
Mission & Date Installation Negated - Refers to the latest [redacted] photography on which it has been established that construction of the installation had not been started. Absence of any notation indicates that this information could not be determined.

Remarks - Covers items of special or unusual interest.

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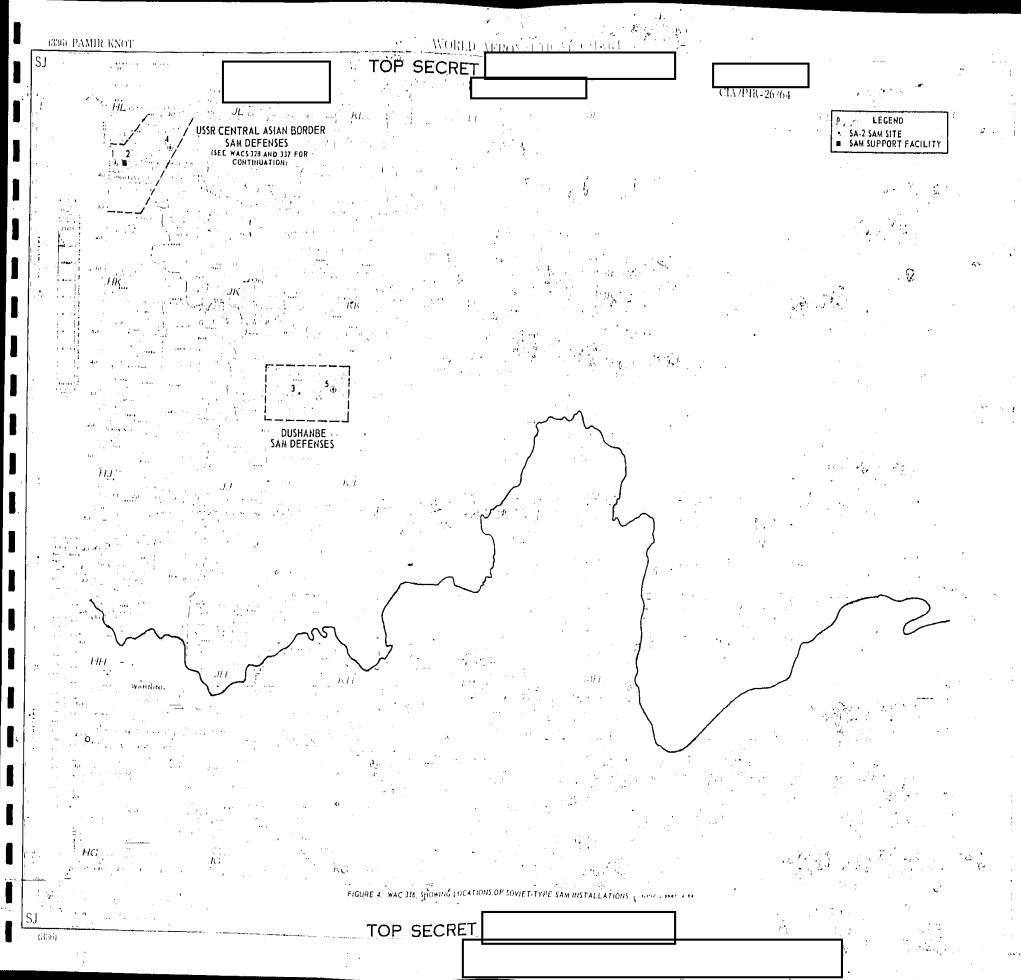
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Table I. SAM Installations in U.S.S.R.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. USSR Central Asian Border SAM Defenses (in defense of the central Asian border of the USSR and Samarkand; a minor complex containing light industry)							
1.	Samarkand SAM Site A10-2 [REDACTED]	39-44-20N 67-43-10E	UR 0336-1	SA-2, probable link	[REDACTED]	[REDACTED]	
2.	Samarkand SAM Support Facility [REDACTED]	39-44-10N 67-47-00E	UR 0336-1	Type II (square)	[REDACTED]	[REDACTED]	
4.	Samarkand SAM Site C09-2 [REDACTED]	39-50-45N 67-30-30E	UR 0336-1	SA-2, configuration undetermined	[REDACTED]	[REDACTED]	
B. Dushanbe SAM Defenses (in defense of Dushanbe, capital of Tadzhik SSR; air defense sector headquarters, government control center, light and heavy industry, including a tractor plant and a textile plant; Gissar Airfield-large military airfield)							
3.	Dushanbe SAM Site A27-2 [REDACTED]	38-33-00N 68-58-00E	UR 0336-7	SA-2, configuration undetermined	[REDACTED]	[REDACTED]	
5.	Dushanbe SAM Site A08-2 [REDACTED]	38-35-35N 68-56-20E	UR 0336-7	SA-2, link	[REDACTED]	[REDACTED]	

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Item	Name, Site Designator, S-HB No	Coordinates	Country & Map Ref.	Type & Configuration	Station & Date First Appear.	Mission & Date Infiltration Negotiated	Remarks	
							For	To
A. USF Central V-Van Border SAM Defense (for detection of the central V-Van border of the USF, and possible targets 25X1, several tanks, antiair, antitank, and PHL weapons, Baytan M-IRBM Complex, Chaddan, probably, may positions, and light industrial center, Kungana MIRBM Complex)								
1	Tedzey SAM Site C11-2	35 11 55N 60 00 10E	UR 0357 16	SV-2, contortion				
2	Tedzey SAM Site A15-2	35 19 45N 60 02 15E	UR 0357 16	SV-2, contortion				
3	Tedzey SAM Site B16-2	35 29 20N 61 01 05E	UR 0357 16	SV-2, contortion				
4	May SAM Site B14-2	35 37 00N 61 33 30E	UR 0357 16	SV-2, contortion				
5	Baytan M-SAM Site B15-2	35 28 55N 61 01 10E	UR 0357 17	SV-2, contortion and curved				
6	May SAM Support Facility	35 28 40N 61 01 10E	UR 0357 17	Type III (square)				
7	Baytan M-SAM Site B09-2	35 37 30N 61 29 50E	UR 0357 17	SV-2, contortion				
8	Baytan M-SAM Site B05-2	35 38 50N 61 07 00E	UR 0357 17	SV-2, contortion				
9	Chaddan SAM Site B20-2	35 51 05N 61 29 10E	UR 0357 8	SV-2, link				
10	Chaddan SAM Site B13-2	35 48 05N 61 29 00E	UR 0357 8	SV-2, link				
11	Chaddan SAM Support Facility	35 02 30N 61 23 00E	UR 0357 8	Type II (square)				
12	Chaddan SAM Site B20-2	35 08 00N 61 27 50E	UR 0357 8	SV-2, link				
13	Bukkana SAM Site C2a-2	35 35 00N 61 00 20E	UR 0357 4	SV-2, probable link				
14	Bukkana SAM Site A19-2	35 11 20N 61 21 15E	UR 0357 4	SV-2, link				
15	Kungana MIRBM Complex Site B25-2	35 20 05N 61 16 20E	UR 0357 5	SV-2, link				
16	Kungana MIRBM Complex Site B16-2	35 17 00N 61 16 00E	UR 0357 5	SV-2, link				
17	Kungana MIRBM Complex Site B01-2	35 10 00N 61 16 00E	UR 0357 5	SV-2, link				
18	Chaddan M-SAM Site B12-2	35 36 50N 61 04 50E	UR 0357 4	SV-2, contortion				
19	Bukkana SAM Site C11-2	35 36 00N 61 04 50E	UR 0357 4	SV-2, contortion and curved				
20	Bukkana SAM Site E14-2	35 36 10N 61 04 50E	UR 0357 4	SV-2, contortion				
One long building in the support area available on May 20, 1964, however, the site cannot be identified. The site access road is visible on [REDACTED] although the site cannot be identified.								

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LEGEND  
■ SA 2 SAM SITE  
■ SAM SUPPORT FACILITY

USR CENTRAL ASIAN BORDER  
SAM DEFENSES  
(REF ID: A1 AND A2  
FOR COMBINATION)

FIGURE 5, MAC 337, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS. (NMC 03044-68)

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25X9

Table 3. SAM Installations in RPR-25X

Item	Name, Site Designator, & BE No.	Coordinates	Country & Map Ref.	Type & Configuration	Acqno & Date First Appear.	Acqno & Date Installation Negotiated	Remarks
A. USSR Central Asian Border SAM Defense (in defense of the central Asian border of the USSR, and specific targets: Reservoirs, Black Sea port containing extensive petrochemical refining and storage facilities, Ashkhabad, Balkanabat, Turkmenabat, Derbent, Aghdam, capital of Tukman SSR, large complex containing several major military installations, a CW-4 area, and several minor areas, antiaircraft)							
1	Krasnodar SAM Site B01	39-59-56N 55-17-0E	UR 0328-1	SV2, un			
2	Nebit Dag SAM Site B32-2	39-59-28N 55-13-5E	UR 0328-1	SV2, configuration undetermined			
3	Nebit Dag SAM Support Facility	39-58-00N 55-19-5E	UR 0328-1	Type II (square)			
4	Nebit Dag SAM Site B32-3	39-59-13N 55-09-10E	UR 0328-1	SV2, un			
5	Kras Dag SAM Site A22-2	39-51-40N 55-03-10E	UR 0328-1	SV2, configuration undetermined			
6	Kazandzhik SAM Site A01-2	39-48-40N 55-06-0E	UR 0328-2	SV2, configuration undetermined			
7	Kizyl Aray SAM Site B30-2	39-06-50N 55-05-5E	UR 0328-8	SV2, configuration undetermined			
8	Kizyl Aray SAM Site A35-2	39-04-05N 55-13-0E	UR 0328-8	SV2, configuration undetermined			
9	Kizyl Aray SAM Support Facility	38-57-20N 55-18-15E	UR 0328-8	Type II (square)			
10	Kizyl Aray SAM Site B12-2	38-52-10N 55-35-20E	UR 0328-8	SV2, configuration undetermined			
11	Balkanabat SAM Site C31-2	38-14-05N 57-02-0E	UR 0328-8	SV2, configuration undetermined			
12	Balkanabat SAM Site D03-2	38-29-00N 57-27-0E	UR 0328-9	SV2, configuration undetermined			
13	Balkanabat SAM Site B11-2	38-19-25N 57-11-30E	UR 0328-11	SV2, configuration undetermined			
14	Akhkhalid SAM Site B32-2	38-06-35N 58-09-20E	UR 0328-11	SV2, configuration undetermined			
15	Akhkhalid SAM Site A05-2	37-59-00N 58-25-0E	UR 0328-11	SV2, configuration undetermined			
16	Akhkhalid SAM Support Facility	37-58-20N 58-24-0E	UR 0328-11	Type II (square)			
17	Akhkhalid SAM Site C11-2	37-48-50N 58-24-0E	UR 0328-15	SV2, configuration undetermined			
18	Artik SAM Site A31-2	37-37-25N 58-16-0E	UR 0328-15	SV2, configuration undetermined			
19	Kashkha SAM Site A01	37-22-40N 58-27-0E	UR 0328-20	SV2, configuration undetermined			

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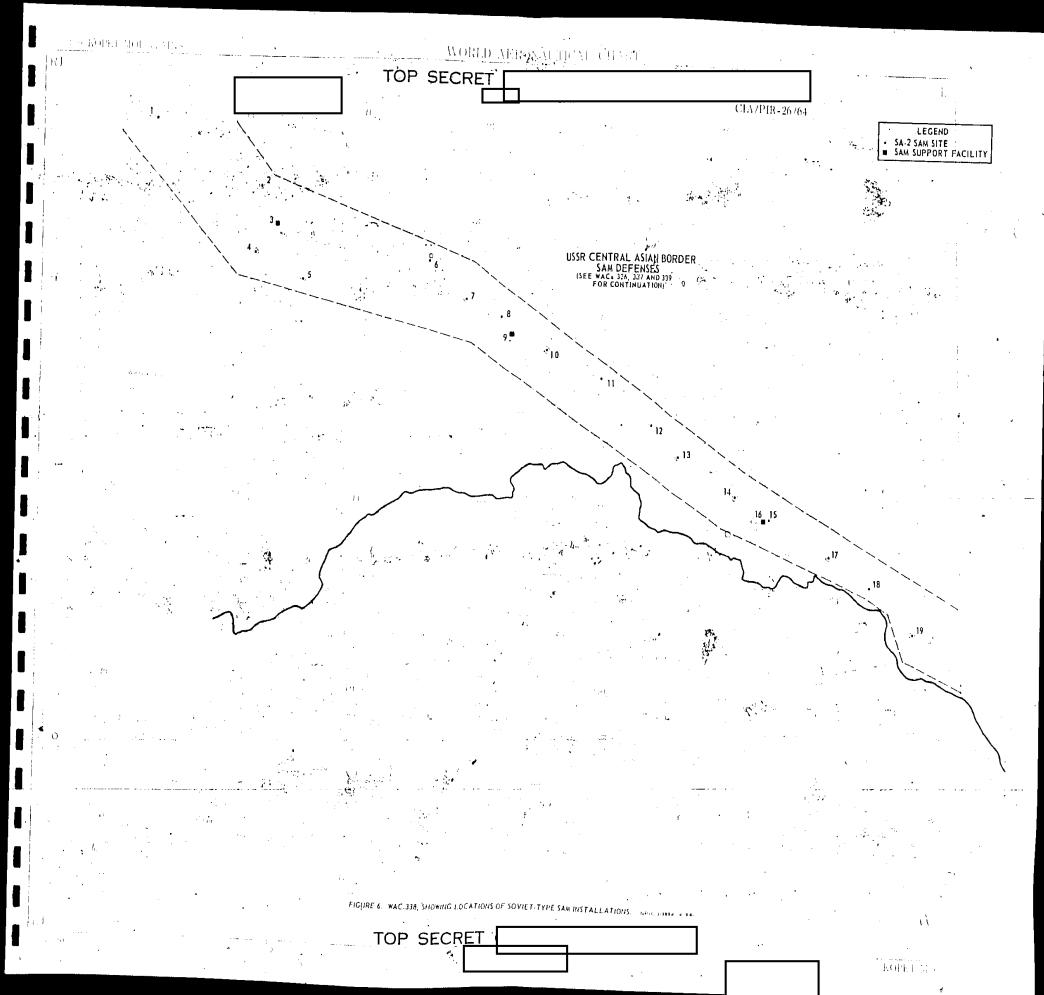
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Table 1. SAW Installations in R.R. 12						
Item	Name, Site Designator, & HE No.	Coordinates	Country & Map Ref.	Type & Configuration	Acq. & Date For + Appr.	Acq. & Date In-fallation Negotiated
A.2	Air Bataan SAM Defenses (in defense of Salyan air defense sector headquarters and the central Asian border of USSR)					
1	Air Baratay SAM Site A17 [REDACTED]	39-49-30N 18-58-00E	TIR 0329-3	S-Az fan [REDACTED]		
B.	USSR Central Asian Border SAM Defenses (in defense of the central Asian border of the USSR, and specific targets: Krasnodar, Black Sea port containing extensive petroleum refining and storage facilities; Nefte Duz Airfield and Dilshad Airfield, nuclear bomber bases; Koy-Kurt Airfield, jet fighter base; Achkhabad, capital of Tadzhik SSR, large complex containing several major military installations, a CW test area, and several military airfields.)					
2	Kra-novod-SAM Site A20 [REDACTED]	39-55-40N 52-56-00E	TIR 0329-5	S-Az fan [REDACTED]		
3	Kra-novod-SAM Support Facility [REDACTED]	39-55-10N 52-57-24E	TIR 0329-5	Type II (quoted)		

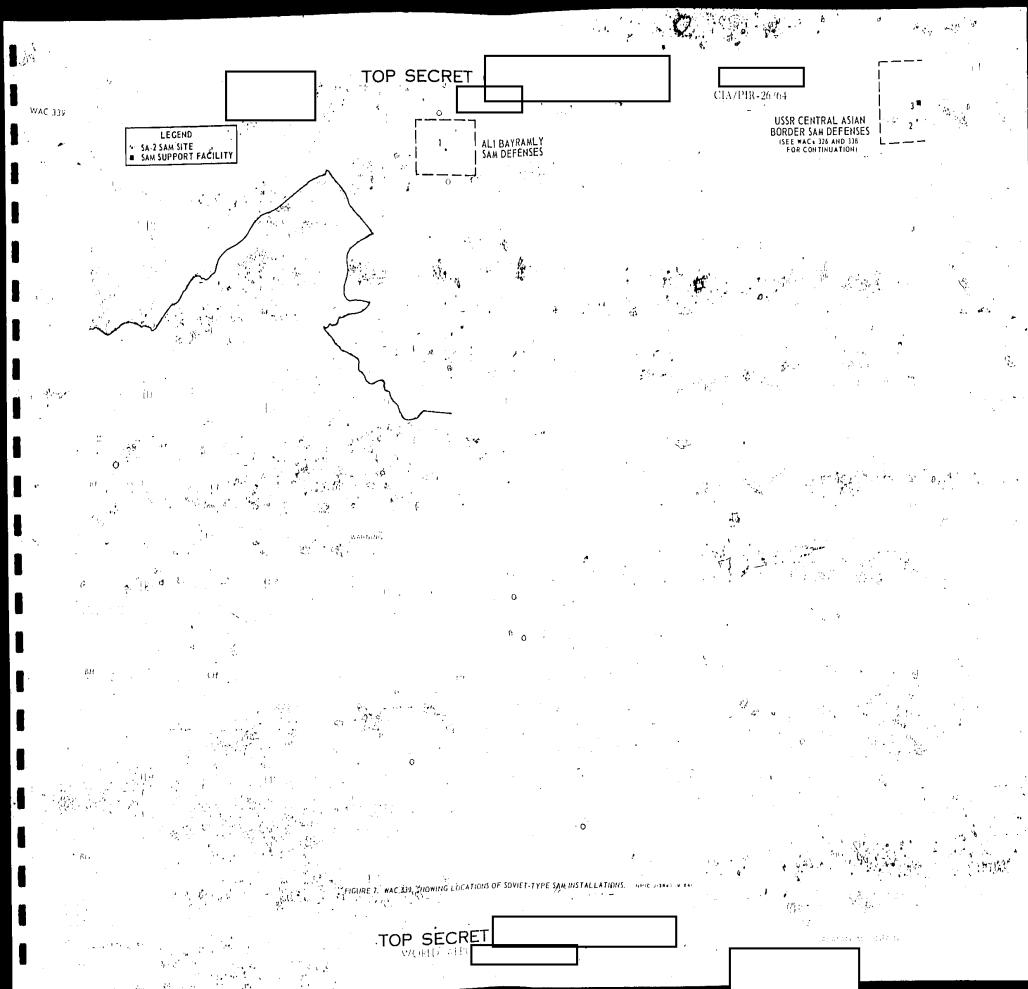
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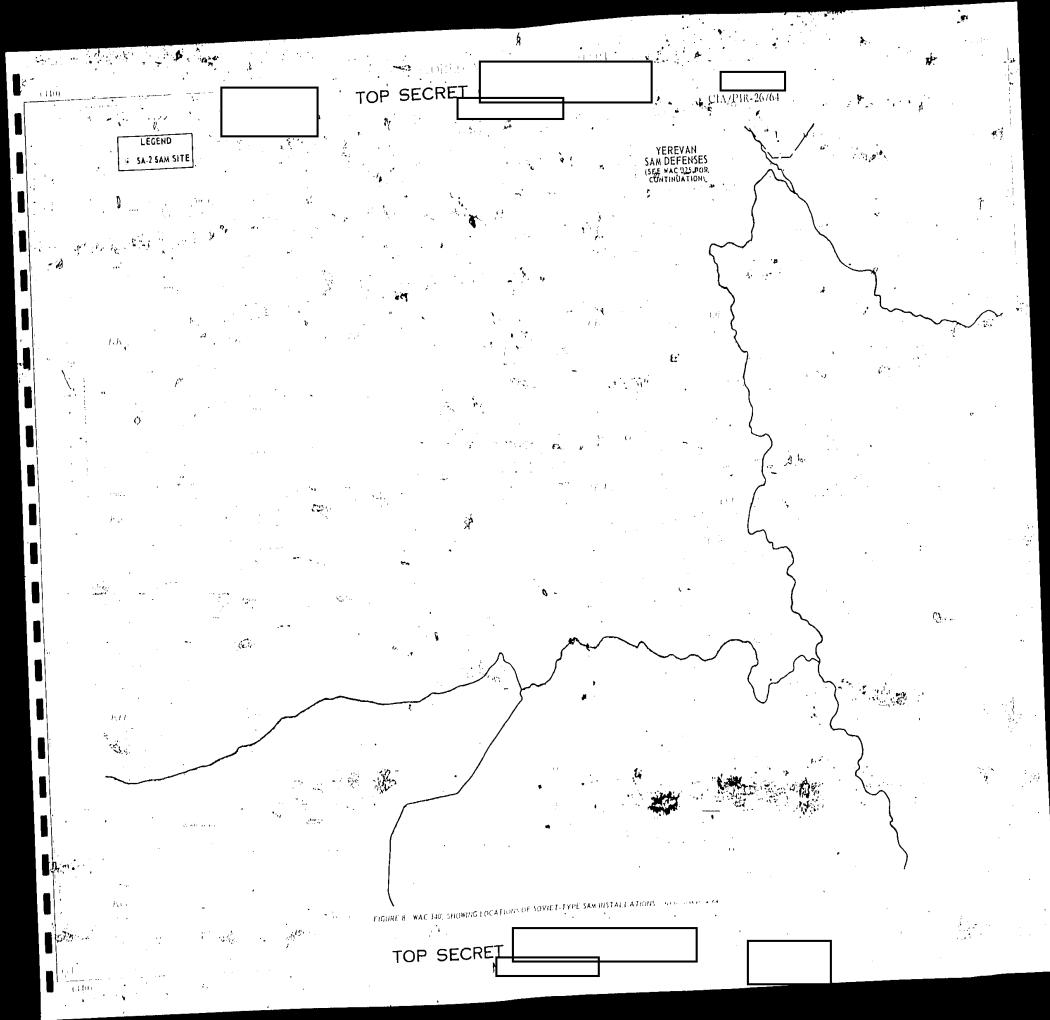
Table 5. SAW Installations on 8/30/79

Item	Name, Site Description, & BE No.	Coordinates	CEC & Mfg Ref	Type & Configuration	Message & Date First Appears	Message & Date Installation Negotiated	Remarks
1	Venezuelan SW Defense (in defense of Venezuela: major industrial complex including synthetic rubber, chemical, electrical machinery, and aluminum production)	38-59-06N 11-37-00E	TR31005	SX2, probable link			
1	Venezuelan SW Defense [redacted]	38-59-06N 11-37-00E	TR31005	SX2, probable link			

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Table 4. SAM Installations w/ 3.3° Iso

Item	Name, Site Designator, & BE No.	Coordinates	Country & Map Ref.	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Verified	Remarks
a. Pyongyang (North Korea) SAM Defense (in defense of Pyongyang, the capital of North Korea, major industrial and transportation center including iron and steel mills, railroad yards, and several civil and military airfields; Yanggak Naval Base and shipyards may also be included within this defensive area)							
1	Pyongyang SAM Site B23-1 [redacted] 38.95N 125.47E	38.95N 125.47E	KN 05807- SA-2, Ind.				
2	Pyongyang Probable SAM Assembly Area, [redacted] 38.95N 125.46E, [redacted] 38.95N 125.46E, [redacted] 38.95N 125.46E	38.95N 125.46E	KN 05808- See remarks				
3	Pyongyang SAM Site B17-2 [redacted] 38.95N 125.41E	38.95N 125.41E	KN 05809- SA-2, Ind.				

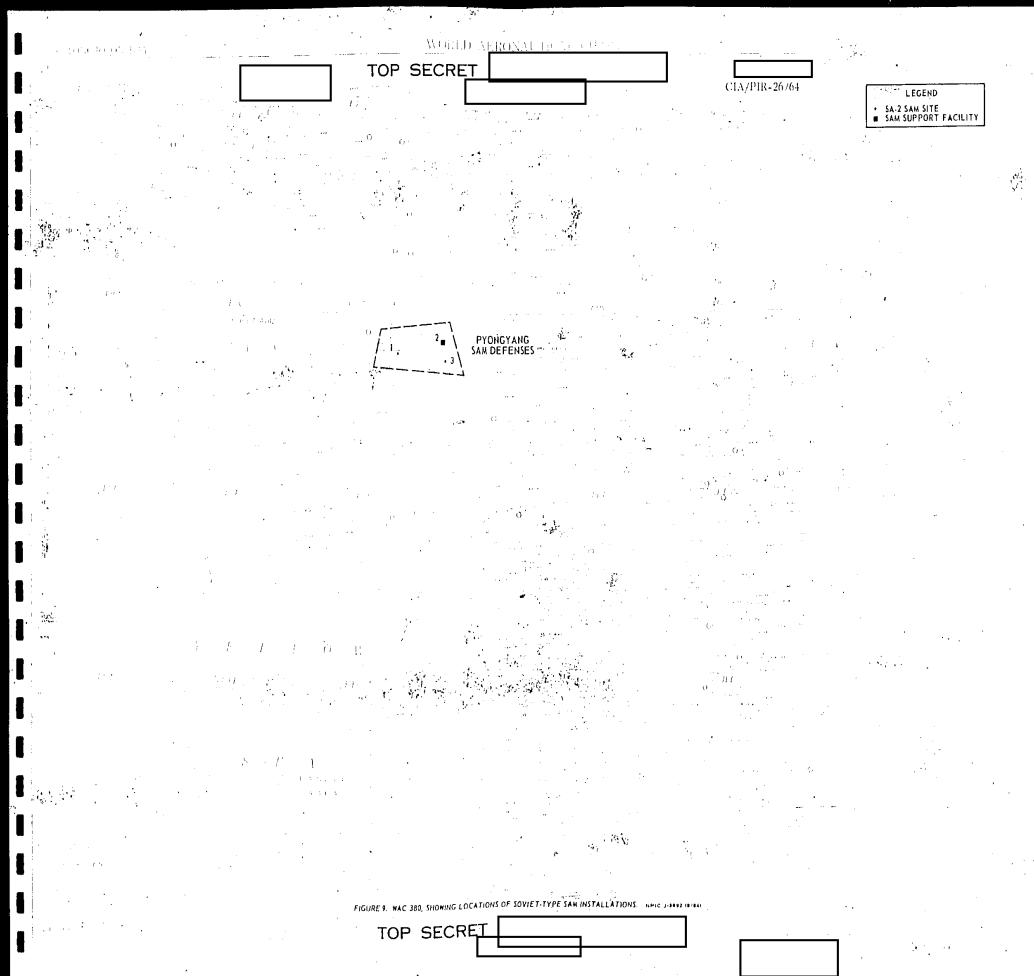
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This installation is not a typical SAM support facility.  
It consists of [redacted] of groups of  
SAM equipment parked in open-topped areas.

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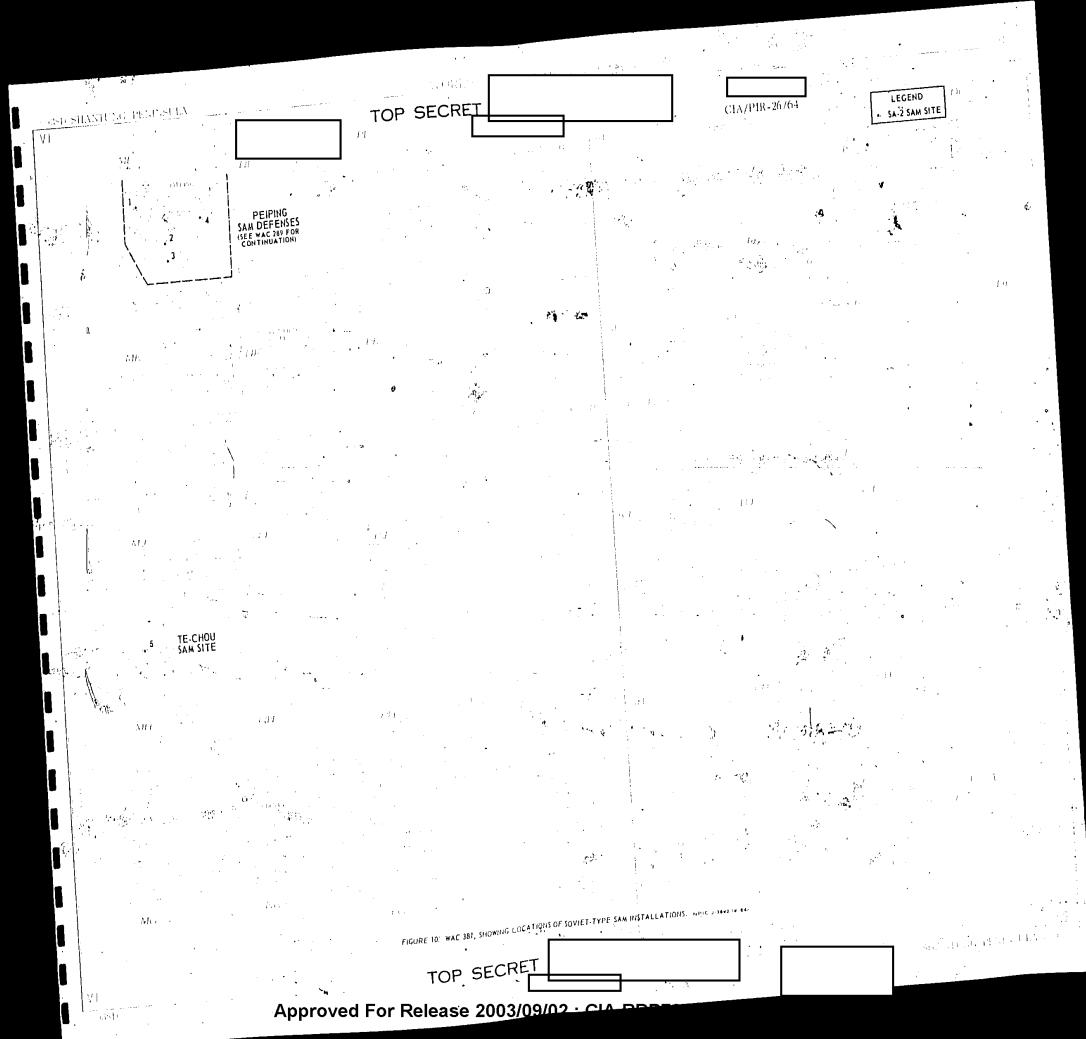
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Page 2 of SAM Installations on 8.10.74.

Item	Name, Site Designator, & BE Xo	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. Peiping (China) SAM Defenses (in defense of Peiping, the capital of Communist China. Major industrial and transportation center containing numerous light and heavy industries, several military factories, and equipment, a nuclear research institute, and a rocket development center)							
1	Peiping SAM Site B26-[REDACTED]	39-45-58N 116-40-56E	CH 0581-1	SAV <sub>2</sub> link			
2	Peiping SAM Site B19-[REDACTED]	39-45-58N 116-41-30E	CH 0581-1	SAV <sub>2</sub> , star			
3	Peiping SAM Site C18-[REDACTED]	39-45-58N 116-41-30E	CH 0581-1	SAV <sub>2</sub>			
4	Peiping SAM Site B12-[REDACTED]	39-47-58N 116-41-53E	CH 0581-1	SAV <sub>2</sub> link			
B. Tewlou (China) SAM Site (in defense of Kuei-lung Airfield-a large military airfield)							
5	Tewlou SAM Site A30-[REDACTED]	37-39-20N 110-07-33E	CH 0581-16	SAV <sub>2</sub> , configuration undetermined			This SAM site appears to have only 3 launch positions located on a elevated road.

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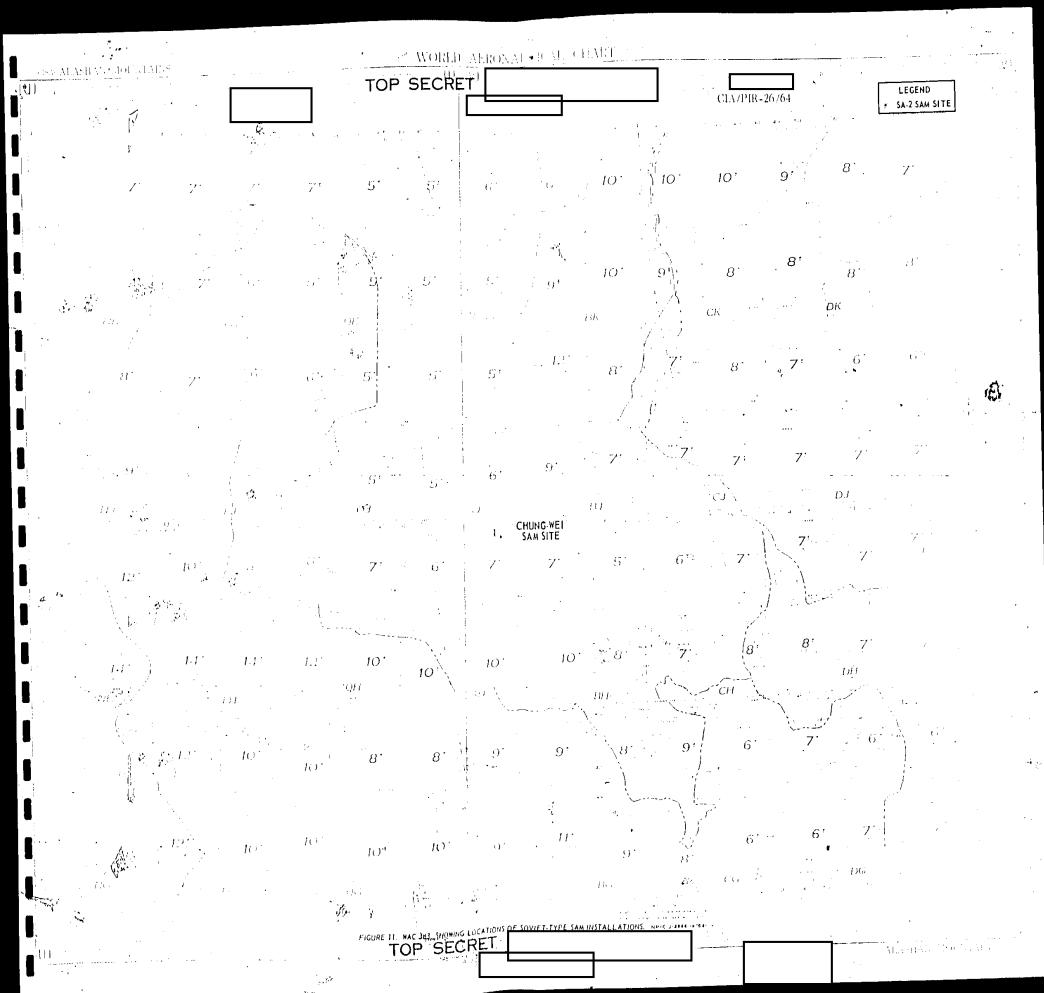
Table 3. SAM Installations in Red China

Ref.	Name, Site Designator, & BE No	Coordinates	Country & Map Ref.	Type & Configuration	Meson & Date First Appear.	Meson & Date Installation Noted	Remarks
A	Changwei SAM Site (designer role undetermined)						
1	Changwei SAM Site Ch2-2	37-51N 105-17E	CH 0285-13	SAC configuration undetermined			Due to lack of map detail, this site has not been plotted to seconds.

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Table 9. S-10 Installations on 25X1C

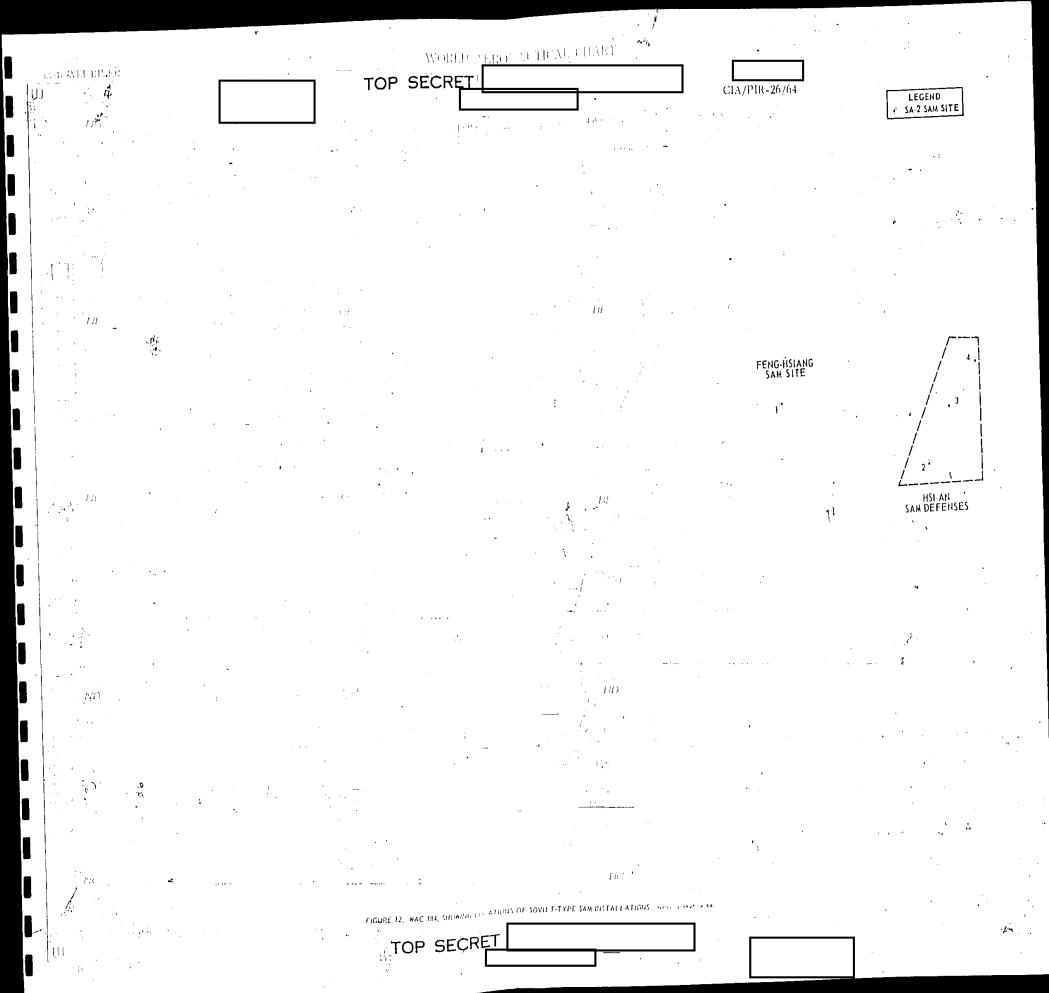
Row	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date For A Alert	Mission & Date Installation Required	Remarks
A. Fong-huang SAW Site (defence role undetermined)							
1	Fong-huang SAW Site 1B02-[REDACTED]	31-31-30N 107-28-10E	CH 0384-9	SA-2 configuration undetermined			
B. H-10m SAW Defences (in defence of H-10m)							
2	H-10m SAW Site C2-2-[REDACTED]	31-08-32N 108-31-55E	CH 0384-15	SA-2 configuration undetermined			
3	H-10m SAW Site B3-2-[REDACTED]	31-27-20N 108-46-20E	YCH 0384-10	SA-2 configuration undetermined			
4	H-10m SAW Site [REDACTED]	31-10-10N 108-59-50E	CH 0384-10	SA-2 configuration undetermined			

This SAW site originally contained of up to 3 launch positions. When reactivated [REDACTED] [REDACTED] an additional three launch positions were being added.

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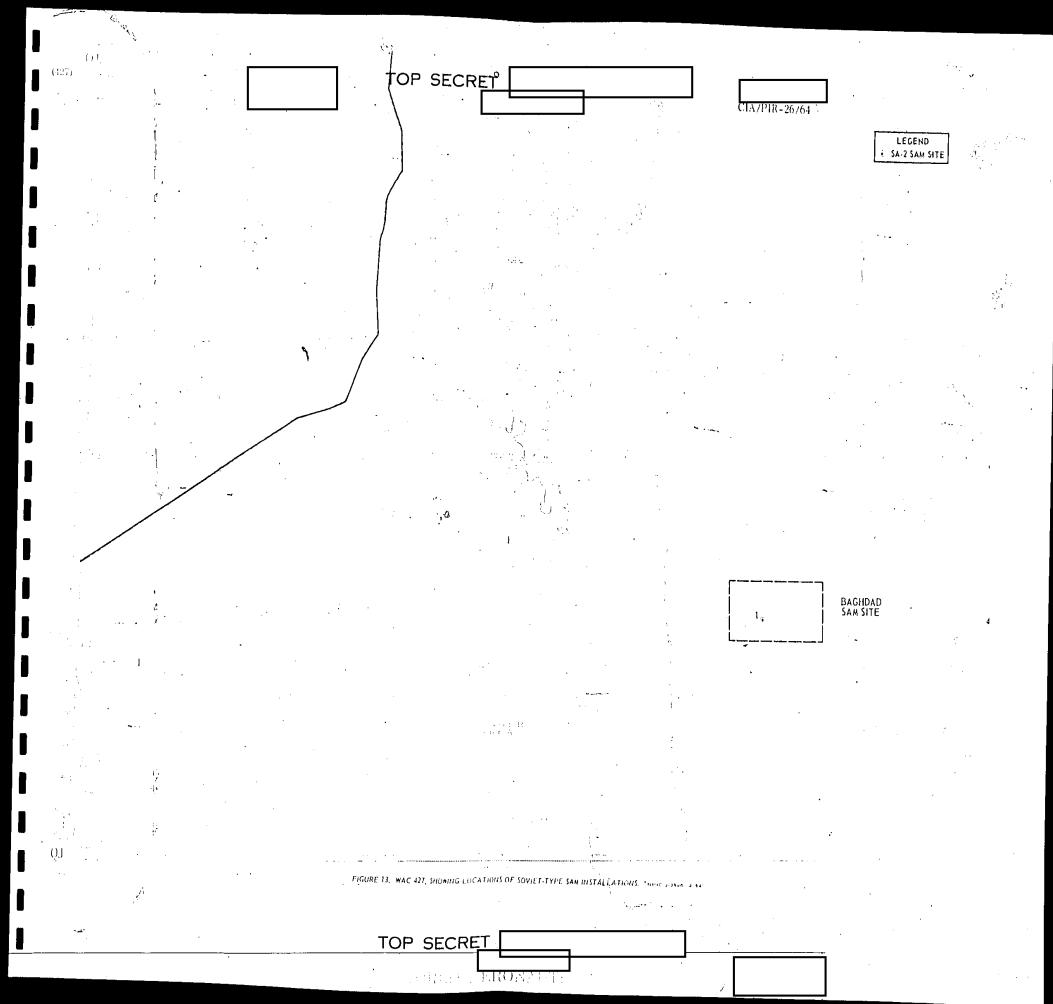
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Table Dn: SAM Installations on W Rd 147

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Wks. inc & Date For 1 Appear.	Mission & Date Infiltration/Negot.	Remarks
A.	Haghdal SAM Site (see remarks)						
1	Via Ghatah SAM Site	35-19-00N 114-13-00E	RQ 127-1D	SA-2, see remarks			This site consists of a paved square perimeter road and 7 paved approaches for the launch platforms and one for the guidance areas. At the time of our photograph available, the site had been disengaged, and the equipment was parked nearby, in a travel position.

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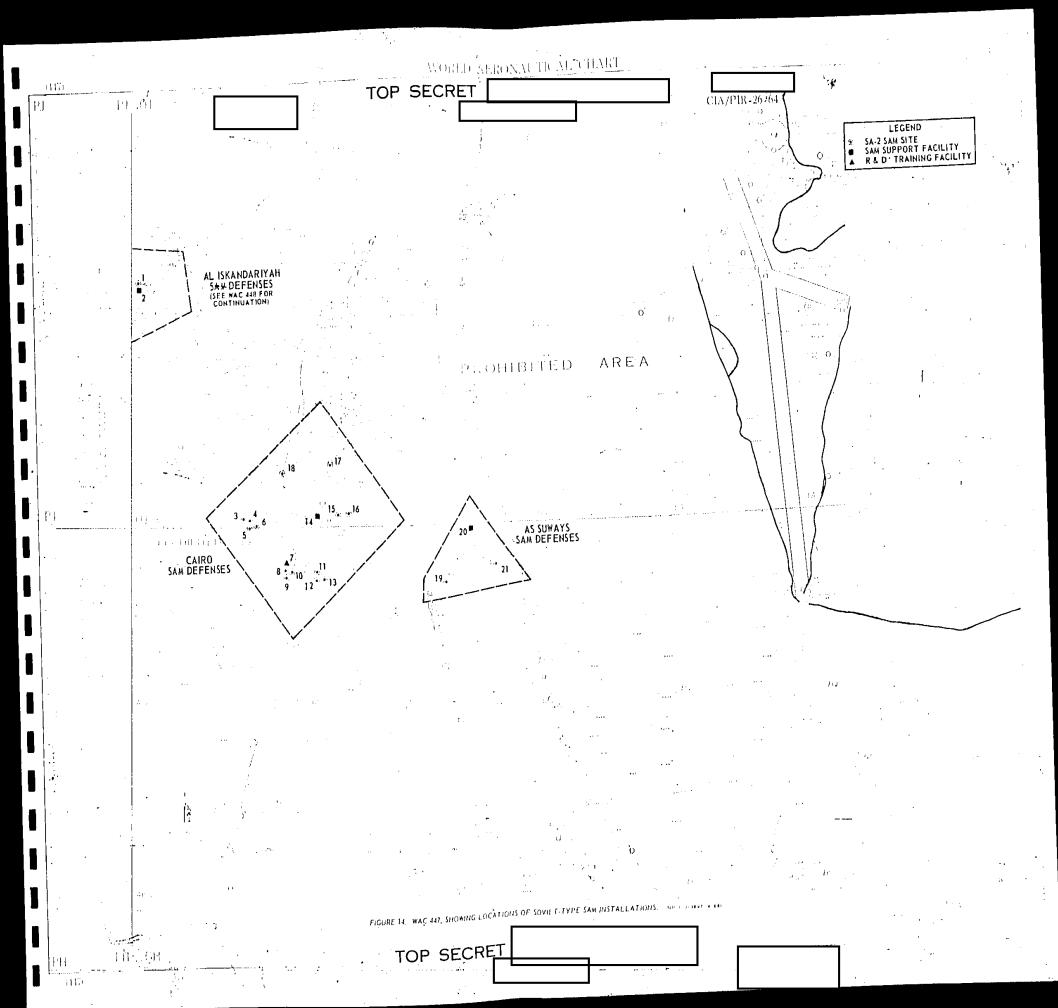
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Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date For 1 Appr.	Mission & Date Installation Negotiated	Remarks
<b>A. Al-Khandaqiyah (Egypt) SAM Defenses (in defense of Al-Khandaqiyah, second largest city in Egypt; contains numerous military installations, including the naval base which serves as headquarters for the Egyptian Navy; shipyard, port facilities, industrial installations, and PHL storage areas)</b>							
1	Al-Khandaqiyah SAM Site BE6-1 [REDACTED]	31-18-00N 30-03-20E	EG 0147-1	SAV2 configuration undetermined			
2	Al-Khandaqiyah SAM Support Facility [REDACTED]	31-18-00N 30-03-24E	EG 0147-1	Type II (square)			
<b>B. Cairo (Egypt) SAM Defenses (in defense of Cairo, the capital city of Egypt; large complex containing military and industrial installations, several large airfields, PHL refueling and storage facilities, and rail facilities)</b>							
3	Cairo SAM Site C2F2 [REDACTED]	30-02-00N 30-50-04E	EG 0147-11	SAV2 link			
	Cairo SAM Site Al-B2F2 [REDACTED]	30-02-00N 30-52-20E	EG 0147-11	SAV2 configuration undetermined			
5	Cairo SAM Site Al-B2F2	30-02-00N 30-52-50E	EG 0147-11	SAV2 configuration undetermined			
6	Cairo SAM Site B2F2 [REDACTED]	30-01-50N 30-53-20E	EG 0147-11	SAV2 link			
7	Dash SAM Training Facility [REDACTED]	29-48-00N 31-08-00E	EG 0147-11				See remarks
8	Cairo SAM Site B2F2 [REDACTED]	29-48-00N 31-09-00E	EG 0147-12	SAV2 link			
9	Cairo SAM Site Al-B2F2 [REDACTED]	29-48-00N 31-09-10E	EG 0147-11	SAV2 configuration undetermined			
10	Cairo SAM Site Al-B2F2	29-47-00N 31-09-00E	EG 0147-11	SAV2 configuration undetermined			
11	Cairo SAM Site B1F2 [REDACTED]	29-45-00N 31-21-00E	EG 0147-12	SAV2 link			
12	Cairo Alternate SAM Site [REDACTED]	29-44-00N 31-21-35E	EG 0147-12	SAV2 configuration undetermined			
13	Cairo Alternate SAM Site [REDACTED]	29-44-00N 31-22-10E	EG 0147-12	SAV2 configuration undetermined			
14	Cairo SAM Support Facility [REDACTED]	30-01-00N 31-22-30E	EG 0147-12	Type II (square)			
15	Cairo SAM Site P09-2 [REDACTED]	30-01-25N 31-31-45E	EG 0147-12	SAV2 configuration undetermined			
16	Cairo SAM Site B09-2 [REDACTED]	30-03-15N 31-36-20E	EG 0147-12	SAV2 configuration undetermined			
17	Cairo SAM Site B01-2 [REDACTED]	30-20-00N 31-28-10E	EG 0147-12	SAV2 link			
18	Cairo SAM Site B03-2 [REDACTED]	30-17-25N 31-07-10E	EG 0147-12	SAV2 link			
<b>C. As-Suwayd (Egypt) SAM Defenses (in defense of the Suez Canal and As-Suwayd; a large complex containing port facilities, logistics, PHL, refueling and storage, a naval base, and several military installations)</b>							
19	As-Suwayd SAM Site B2F2 [REDACTED]	29-43-20N 32-26-15E	EG 0147-12	SAV2 configuration undetermined			
20	As-Suwayd SAM Support Facility [REDACTED]	29-49-35N 32-31-30E	EG 0147-13	Type II (square)			
21	As-Suwayd SAM Site B1F2 [REDACTED]	29-48-10N 32-42-30E	EG 0147-13	SAV2 link			

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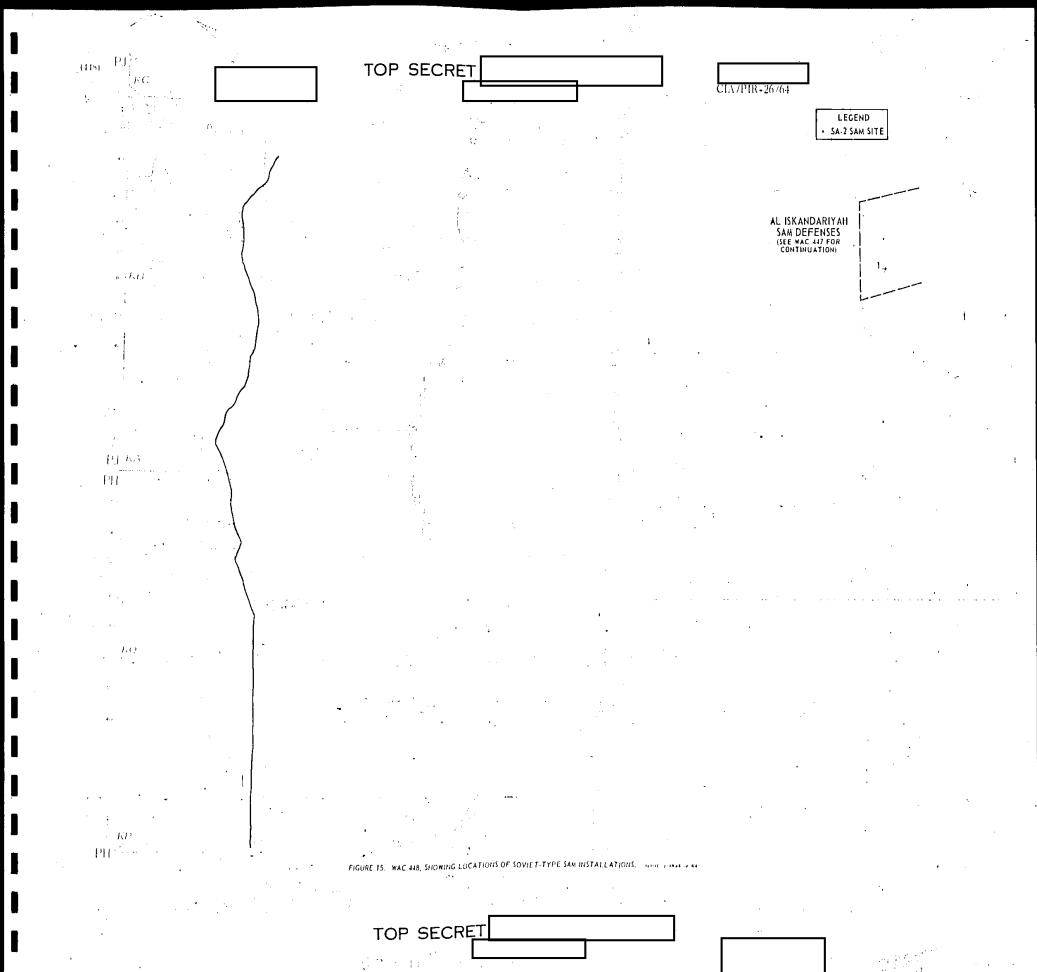
Table 12. SAW Installations in R.W. 152

Item	Name, Site-Designator, & BE No.	Coordinates	Count & Map Ref.	Type & Configuration	Move & Date First Appear.	Activation & Date Installatn Negated	Remark
1	Al Iskandariyah SAW Site B21-2 [REDACTED]	31°40'N 29°43'20"E	EG 0018-10	SAW, probable fan	[REDACTED]	[REDACTED]	[REDACTED]

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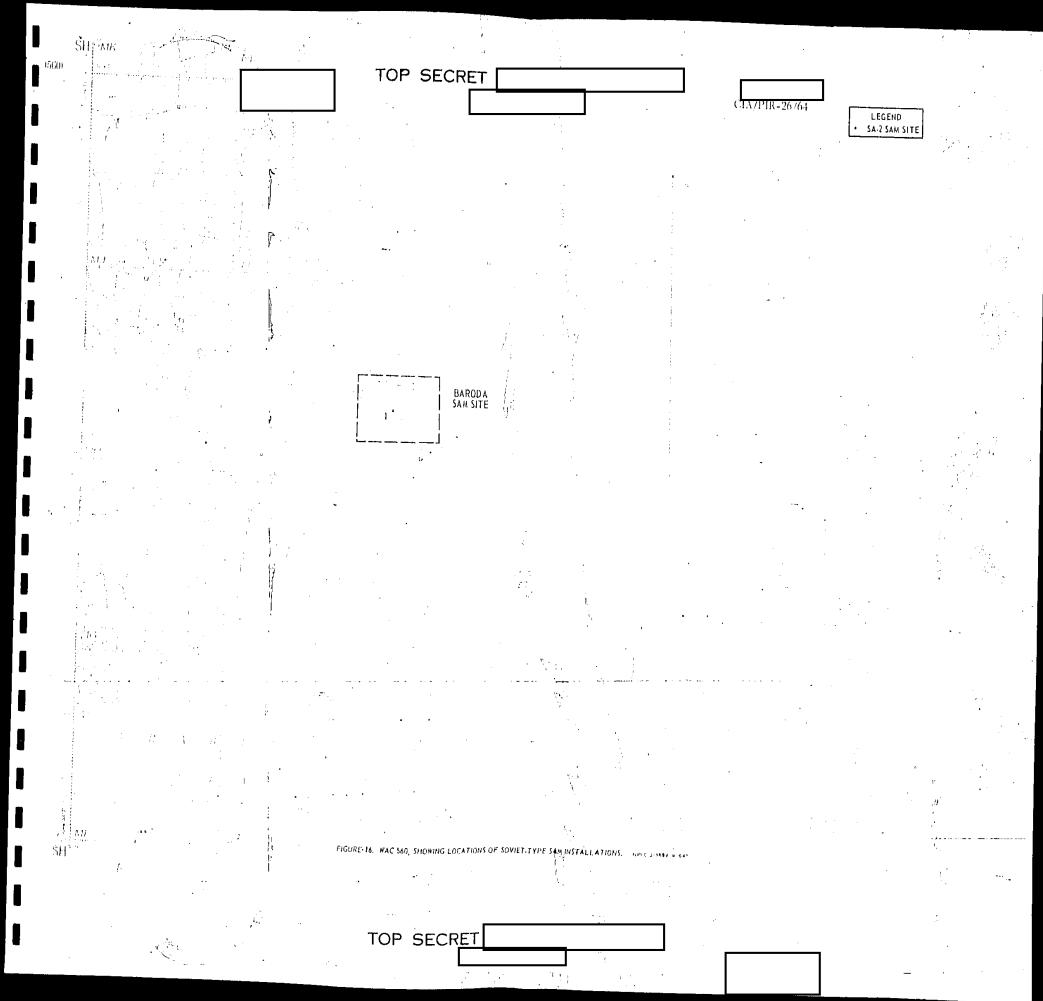
[redacted]

Item	Name, Site Designator, & ID, Alt.	Coordinates	Country & Map Ref.	Type & Configuration	Mission & Date		Remarks
					First Appearance	Installation Negotiated	
A. Baroda (India) SWR Site (This site probably serves only as a training site, and has no defensive function)							
1	Baroda SWR Site	22-18N 73-42E 100-50N-8101	India PSTATC	SWR Link	[redacted]	[redacted]	This is a SW training site. It was under construction in [redacted]

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[REDACTED] CIA/PIC-26-64

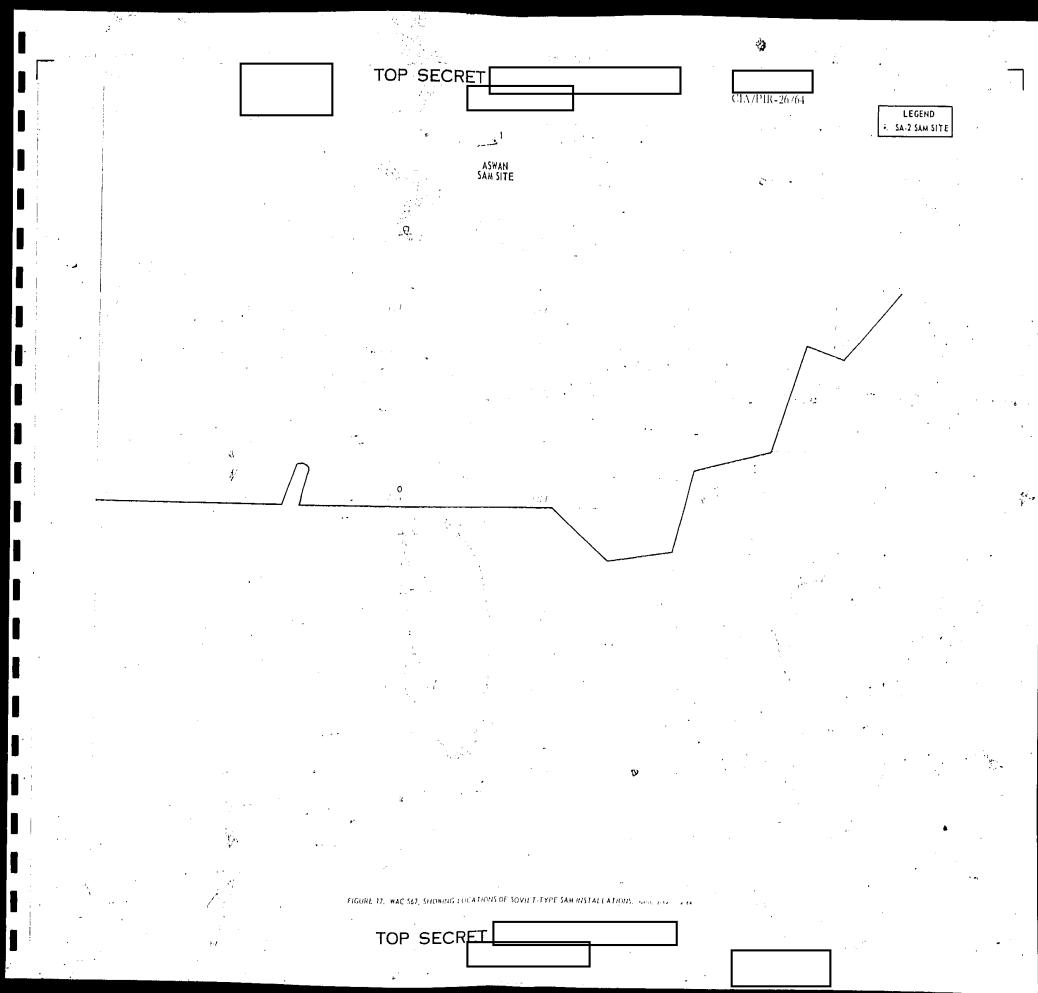
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Table I<sub>1</sub>: SSM Installations in 04C-567

Item	Name, Site Designator, & HE No.	Coordinates	Country & Map Ref.	Type & Configuration	Month & Date For 3 Appear	Month & Date Installation Negated	Remarks
A. Aswan (Egypt) SSM Site (in defense of Aswan Dam)							
1. Aswan SSM Site B2252 [REDACTED]	235604N 321140E	Egypt USHP	SSM configuration Semi-3D [REDACTED] 16673 ZMV	[REDACTED]			

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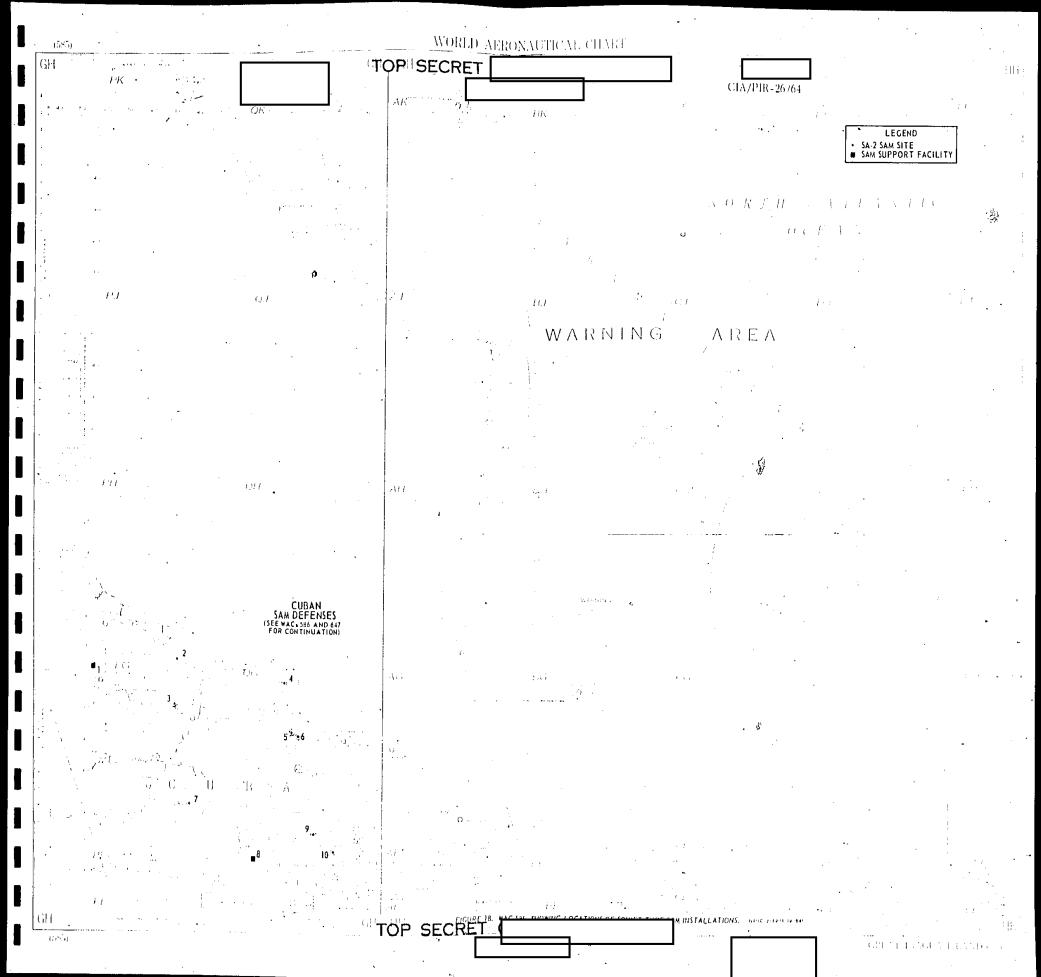
Table 15. SAM Installations with 10-50

Item	Name, Site Designator, & BE No.	Coordinate	Country & Map Ref.	Type & Configuration	Mission & Date For 1 Appr.	Mission & Date Installations Negated	Remarks
<i>A. Cuban SAM Defense</i> (with the exception of the Havana and Sagua La Grande sites, the SAM sites in Cuba cannot easily be grouped as defensive of the complete island. More recently, the deployment pattern has been changed, and now the general rule seems to be the defense of critical targets by a single site. Most of the abandoned sites in Cuba can be attributed to this change in emphasis.)							
1	Victoria de la Tuna SAM Assembly Area	21-01-10N 75-00-00W	CU 058546	See remarks			
2	Chaparral SAM Site	21-07-20N 76-26-20W	CU 058546	SA2, stat			
3	Holguin SAM Site	20-29-20N 76-47-00W	CU 058546	SA2, link			
4	Los Angeles SAM Site	21-00-00N 75-01-13W	CU 058546	SA2, probable stat			
5	Prieton SAM Site	20-14-17N 75-38-55W	CU 058546	SA2, stat			
6	Nicaragua SAM Site	20-14-07N 75-35-00W	CU 058546	SA2, configuration undetermined			
7	Iparragirre SAM Site	20-21-08N 76-20-00W	CU 058546	SA2, configuration undetermined			
8	Santiago de Cuba SAM Assembly Area	20-03-10N 75-53-20W	CU 058546	See remarks			
9	Malibres SAM Site	20-12-25N 75-28-13W	CU 058546	SA2, stat			
10	Cubana SAM Site	20-06-20N 75-20-13W	CU 058546	SA2, configuration undetermined			

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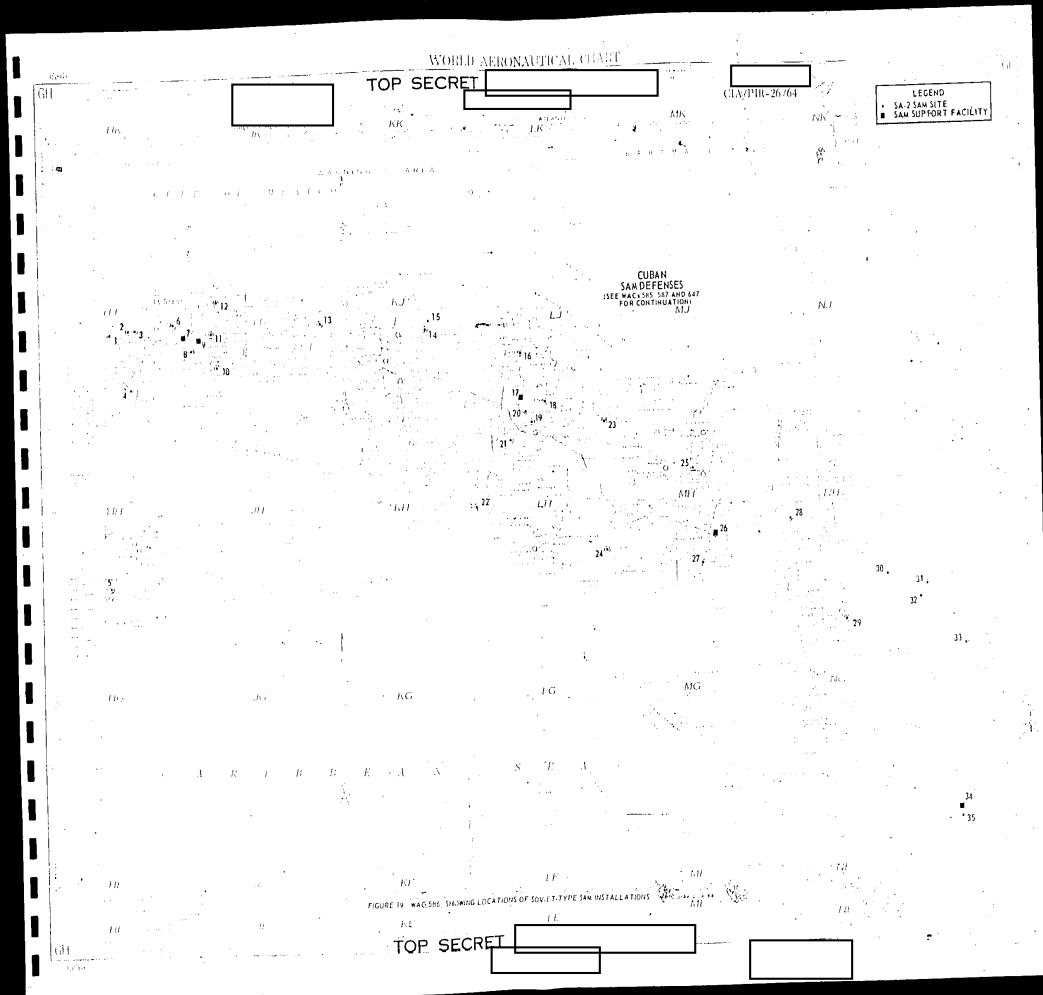
Table 16. SAM Installations in Cuba

Item	Name, Site Designator, & BE No.	Coordinates	Country & Map Ref.	Type & Configuration	Mission & Date First Appear-	Mission & Date Installation Neglected	Remarks
<i>A. Cuban SAM Defenses (with the exception of the Havana and Santa Clara areas, the SAM sites in Cuba cannot be easily grouped into defense complexes). The original SAM deployment in Cuba constituted a well-defined perimeter defense of the complete island. More recently, the deployment pattern has been changed, and now the general rule seems to be the defense of critical targets by a single site. Most of the abandoned sites in Cuba can be attributed to this change of emphasis.)</i>							
25X1A	Calama SAM Site [redacted]	22-58-36N 82-58-18W	CU 0586-6	SA2 <sub>1</sub> link			This site is in defense of Calama Naval Base.
2	Martel SAM Site [redacted]	23-00-55N 82-49-30W	CU 0586-6	SA2 <sub>1</sub> star			This site is inactive.
3	Martel SAM Site 2	23-00-55N 82-48-50W	CU 0586-6	SA2 <sub>1</sub> , configuration undetermined			The site is in defense of Martel Naval Base, complete and rated port.
4	Mojana SAM Site [redacted]	22-41-20N 82-49-50W	CU 0586-6	SA2 <sub>1</sub> , configuration undetermined			The defensive role of the site cannot be determined.
5	Siguanas SAM Site [redacted]	21-37-35N 82-57-33W	CU 0586-11	SA2 <sub>1</sub> , star			This site is in defense of military naval facilities and the crimp-on site on the Isle of Pines.
25X1A <sub>b</sub>	Punta Blava SAM Site [redacted]	23-01-27N 82-31-33W	CU 0586-6	SA2 <sub>1</sub> , configuration undetermined			This site is in defense of Havana.
25X1A <sub>c</sub>	Tortugas SAM Assembly Area [redacted]	22-57-12N 82-27-54W	CU 0586-6	See remarks			This is not a standard SAM support facility.
25X1A <sub>d</sub>	La Solid SAM Site [redacted]	22-53-07N 82-21-12W	CU 0586-6	SA2 <sub>1</sub> , star			This site is probably in defense of Havana.
25X1A <sub>e</sub>	Santiago de la Virgen SAM Assembly Area [redacted]	22-57-10N 82-21-30W	CU 0586-6	See remarks			This is not a standard SAM support facility. It consists of several large watchtower-type buildings, and equipment in the open.
25X1A <sub>f</sub>	Guanica SAM Site [redacted]	22-18-12N 82-45-12W	CU 0586-6	SA2 <sub>1</sub> , configuration undetermined			This site is in defense of Havana.
25X1A <sub>g</sub>	Matanzas SAM Site [redacted]	22-59-12N 82-45-50W	CU 0586-6	SA2 <sub>1</sub> , star			This site is probably in defense of Havana.
12	Havana SAM Site [redacted]	23-00-25N 82-47-52W	CU 0586-6	SA2 <sub>1</sub> , star			This site is in defense of Havana.
13	Matanzas SAM Site [redacted]	23-01-50N 82-49-11W	CU 0586-7	SA2 <sub>1</sub> , link			This site is in defense of Matanzas port and several military installations.
14	Delonte SAM Site [redacted]	23-59-21N 80-45-47W	CU 0586-7	SA2 <sub>1</sub> , star			This site has been abandoned.
15	Delonte Alternate SAM Site [redacted]	23-01-30N 80-44-14W	CU 0586-7	SA2 <sub>1</sub> , star			This site has been abandoned.
16	Sagua La Grande SAM Site [redacted]	22-51-0N 80-06-54W	CU 0586-7	SA2 <sub>1</sub> , star			This site is not a standard SAM support facility.
25X1A <sub>h</sub>	Cienfuegos SAM Assembly Area [redacted]	22-56-12N 79-55-00W	CU 0586-8	See remarks			This site is in defense of Cienfuegos Artillery and several military installations in the area.
18	Mata SAM Site [redacted]	22-33-04N 79-55-02W	CU 0586-8	SA2 <sub>1</sub> , configuration undetermined			

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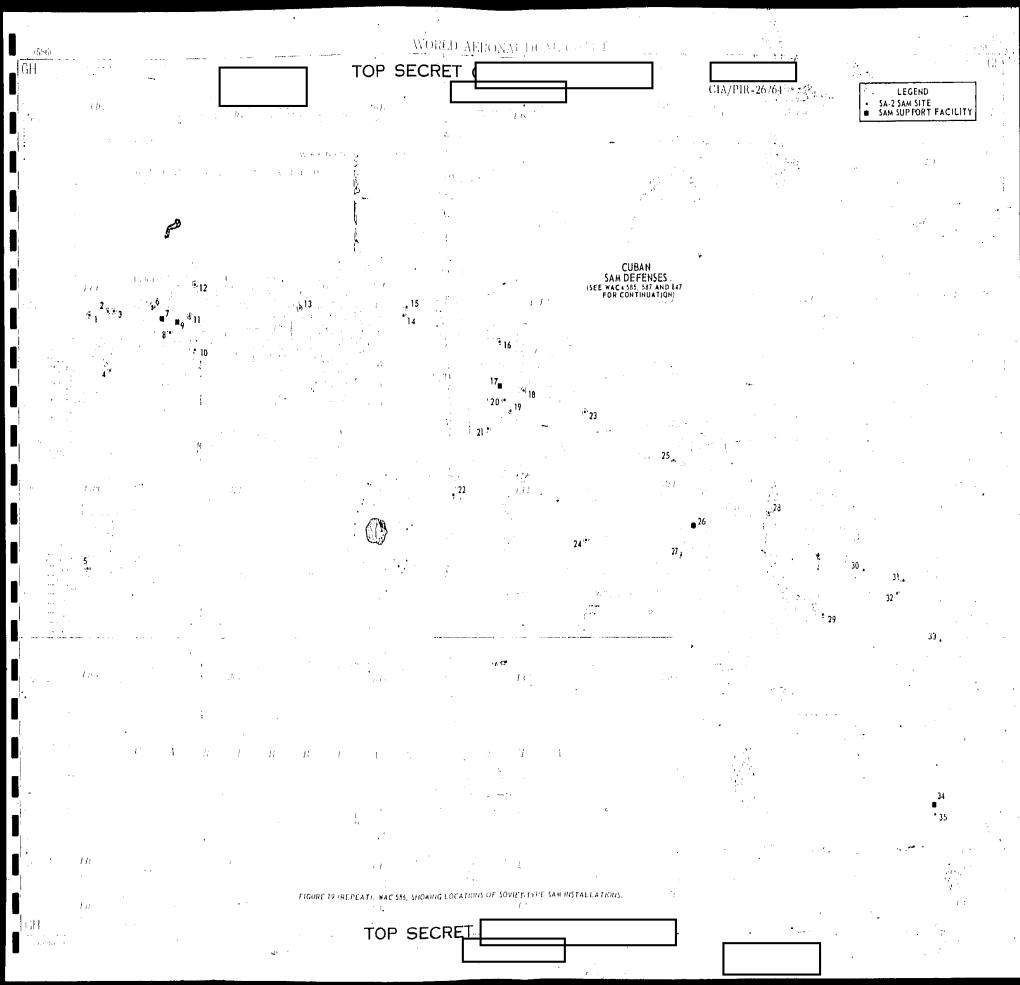
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Table D6 (Continued)

Item	Name, Site Designator, & HE No	Coordinate	Country & Map Ref.	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remark
25X1A <sub>19</sub>	Santa Clara SAM Site [REDACTED]	22-29-61N 80-00-00W	CU 0586-1	SV2 <sub>1</sub> configuration undetermined			
20	San Diego del Valle SAM Site [REDACTED]	22-32-15N 80-03-10W	CU 0586-8	SV2 <sub>1</sub> configuration undetermined			
21	Ranchito SAM Site [REDACTED]	22-25-18N 80-10-03W	CU 0586-8	SV2 <sub>1</sub> configuration undetermined			
22	Ciudad Guzman SAM Site [REDACTED]	22-02-50N 80-21-00W	CU 0586-13	SV2 <sub>1</sub> link			
23	Cabaron SAM Site [REDACTED]	22-08-15N 79-29-53W	CU 0586-8	SV2 <sub>1</sub> stat			
24	Santi Spiritus SAM Site [REDACTED]	21-17-15N 79-29-30W	CU 0586-13	SV2 <sub>1</sub> stat			
25	Chandler SAM Site [REDACTED]	22-15-20N 78-55-00W	CU 0586-11	SV2 <sub>1</sub> link			
26	Ciego de Avila SAM Assembly Area [REDACTED]	21-01-00N 78-11-00W	CU 0586-11	See remarks			
27	Ciego de Avila SAM Site [REDACTED]	21-12-10N 78-50-20W	CU 0586-11	SV2 <sub>1</sub> stat			
28	Emeralda SAM Site [REDACTED]	21-55-18N 78-13-01W	CU 0586-11	SV2 <sub>1</sub> stat			
29	Camaguey SAM Site [REDACTED]	21-25-50N 77-50-00W	CU 0586-20	SV2 <sub>1</sub> configuration undetermined			
30	Senado SAM Site [REDACTED]	21-36-00N 77-33-01W	CU 0586-15	SV2 <sub>1</sub> link			
31	Nuevitas SAM Site [REDACTED]	21-32-50N 77-47-48W	CU 0586-20	SV2 <sub>1</sub> configuration undetermined			
32	Nuevitas SAM Site [REDACTED]	21-28-18N 77-20-15W	CU 0586-20	SV2 <sub>1</sub> configuration undetermined			
33	Manati SAM Site [REDACTED]	21-13-15N 77-02-15W	CU 0586-20	SV2 <sub>1</sub> link			
34	Manzanillo SAM Assembly Area [REDACTED]	20-18-15N 77-06-40W	CU 0586-25	See remarks			
35	Manzanillo SAM Site [REDACTED]	20-18-20N 77-06-08W	CU 0586-25	SV2 <sub>1</sub> stat			

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Table 17. SAM Installations in Cuba

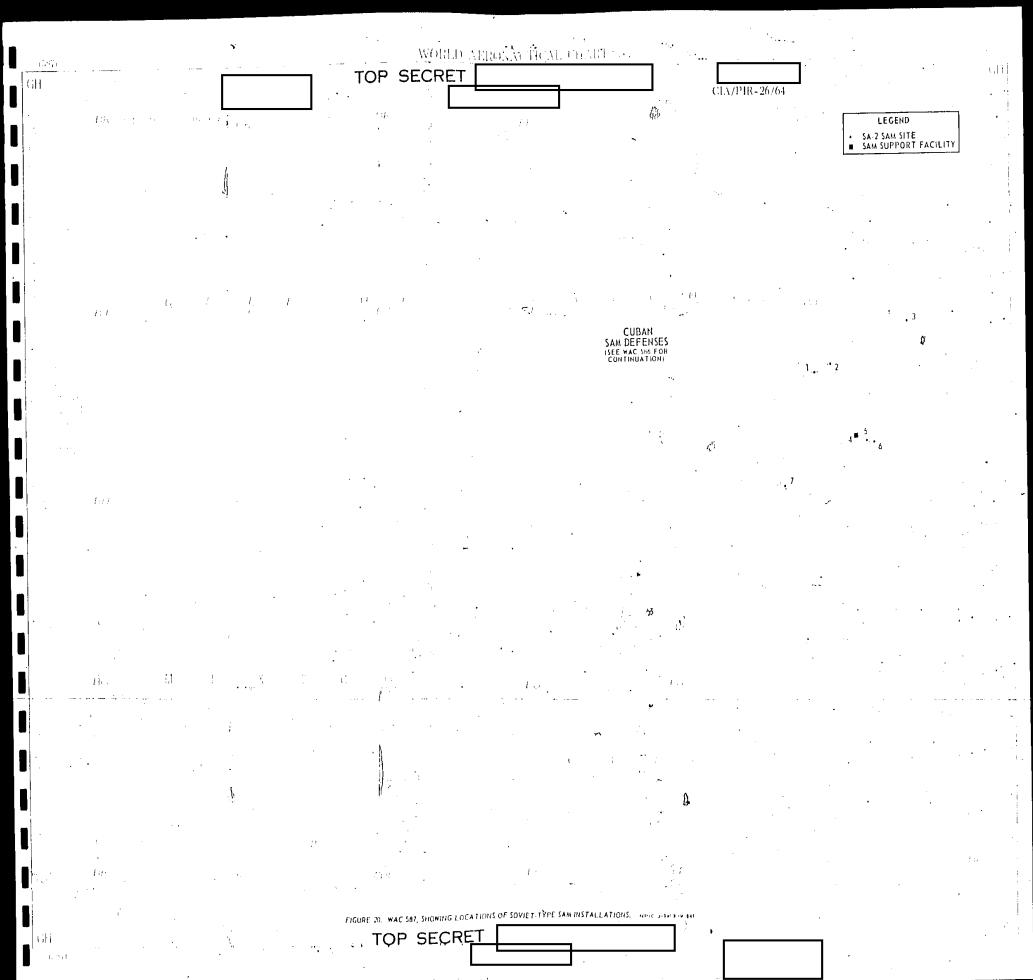
Item	Name, Site Designator, & BE No.	Coordinates	Country & Map Ref.	Type & Configuration	Mission & Date First Appar.	Mission & Date Installation Negated	Remarks
<i>A. Cuban SAM sites (with the exception of the Havana and Santa Clara areas, the SAM sites in Cuba cannot easily be grouped into defense complexes. The original SAM deployment in Cuba contained a well-defined perimeter defense of the complete island. More recently, the deployment pattern has been changed, and now the general rule seems to be the defense of critical targets in a single site. Most of the abandoned sites in Cuba can be attributed to the change in emphasis).</i>							
1	Santa Lucia SAM Site [REDACTED]	22°44'30"N 82°55'45"W	CU 0.65740	SA2, configuration undetermined			This site has been abandoned.
2	Santa Lucia Alternate SAM Site	22°43'40"N 82°49'50"W	CU 0.65740	SA2, 6P			This site has been abandoned.
3	Riobamba SAM Site [REDACTED]	22°57'05"N 82°47'50"W	CU 0.65740	SA2, link			This site has been abandoned.
4	Pina del Rio SAM V- ready Area [REDACTED]	22°51'09"N 82°39'45"W	CU 0.65745	See remark			
<i>B. Cuban SAM sites (with the exception of the Havana and Santa Clara areas, the SAM sites in Cuba cannot easily be grouped into defense complexes. The original SAM deployment in Cuba contained a well-defined perimeter defense of the complete island. More recently, the deployment pattern has been changed, and now the general rule seems to be the defense of critical targets in a single site. Most of the abandoned sites in Cuba can be attributed to the change in emphasis).</i>							
5	La Coloma SAM Site [REDACTED]	22°49'45"N 82°51'50"W	CU 0.65745	SA2, configuration undetermined			This is not a standard SAM support facility, but contains several buildings, and equipment stored in the open.
6	La Coloma SAM Site [REDACTED]	22°48'15"N 82°49'55"W	CU 0.65745	SA2, 6P			This site is probably in defense of Pinar del Rio military installation.
7	San Julian Airfield SAM Site [REDACTED]	22°05'05"S 81°48'55"W	CU 0.65745	SA2, 6P			This site has been abandoned.

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Table 18. SAM Locations as of 10/67

Item	Name, Site Designator & BE No.	Coordinates	Country & Map Ref.	Type & Configuration	Mission & Date For Approach	Mission & Date In-Callibration Negotiated	Remarks
------	--------------------------------	-------------	--------------------	----------------------	-----------------------------	-------------------------------------------	---------

A. Cuban SAM Defense: (With the exception of the Havana and Santa Clara areas, the SAM sites in Cuba cannot easily be grouped into defense complexes. The original SAM deployment in Cuba constituted a well-defined perimeter defense of the complete island. More recently, the deployment pattern has been changed, and now the general rule seems to be the defense of critical targets by a single site. Most of the abandoned sites in Cuba can be attributed to this change in emphasis.)

1. Santiago de Cuba SAM Site [REDACTED]

19°50'20" N 75°50'58" W

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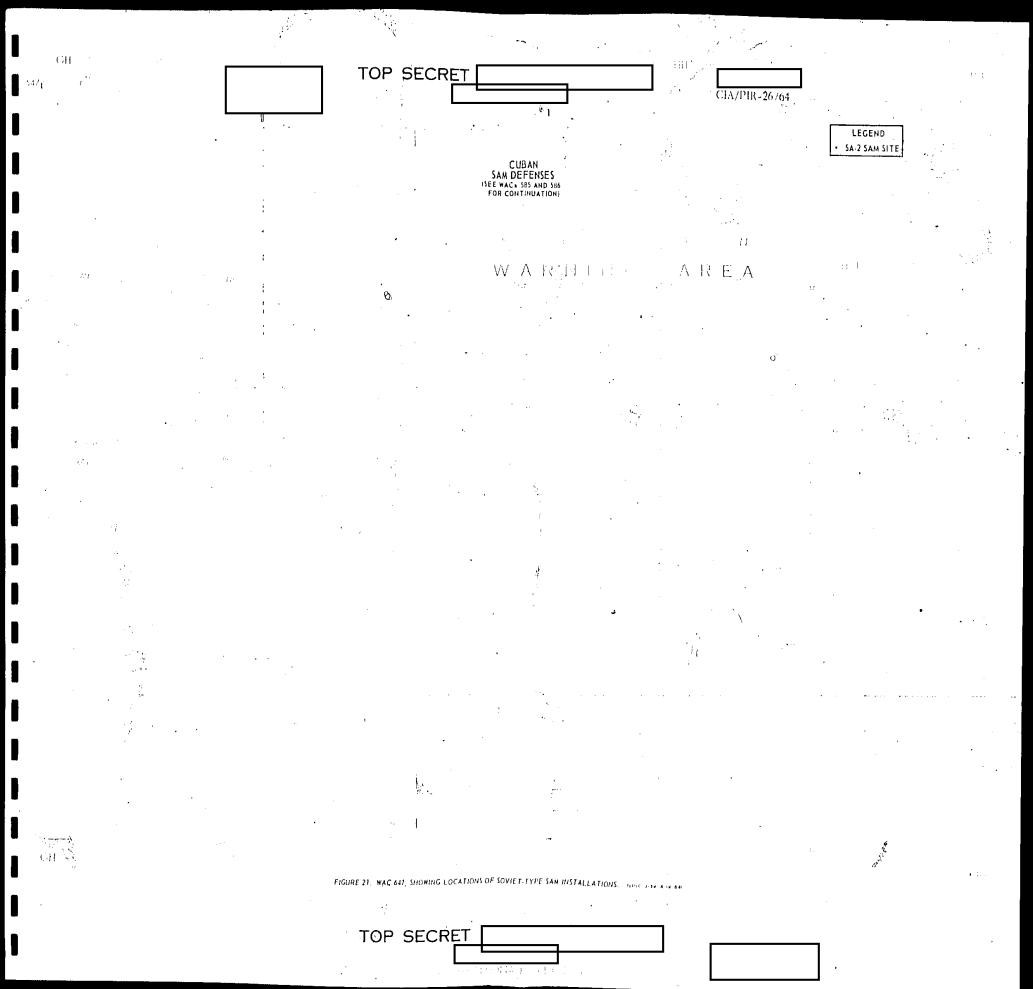
SACG link

This site is in defense of Santiago de Cuba port facilities, Naval base, PDL, airport, and several military installations.

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CIA/PIC 26/64

## 25X1A

## 25X1D

Table 19. SAM Installations as of 10<sup>6</sup> 967

Item	Name, Site Designator, & BE No.	Coordinates	Country & Map Ref.	Type & Configuration	When & Date First Appears	Mission & Info Installation Reported	* Remarks
A. Djakarta (Indonesia) SAM Defense (in defense of Djakarta, capital and largest city of Indonesia, and of the port city of Tangerang)							
1	Djakarta SAM Site Kumpang Melaja BE29-2	06-01-20S 106-48-10E	ID Sheet SH 1s-12	SV-2, Link			
2	Djakarta SAM Site Tipiltingg BE6-2	06-05-15S 106-56-00E	ID AMS-TG01 Sheet SH 1s-12	SV-2, configuration undetermined			
3	Djakarta SAM Site Tipeleng BH1-2	06-25-38S 106-50-10E	ID AMS-TG01 Sheet SH 1s-12	SV-2, Link			
B. Kalidjati SAM Training Area (This site probably has no operational function; it appears to serve a training function only)							
1	Kalidjati Missile Training Center	06-32-52S 107-39-53E	ID AMS-TG01 Sheet SH 1s-12	SV-2, undetermined			

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## WORLD AERONAUTICAL SHARE

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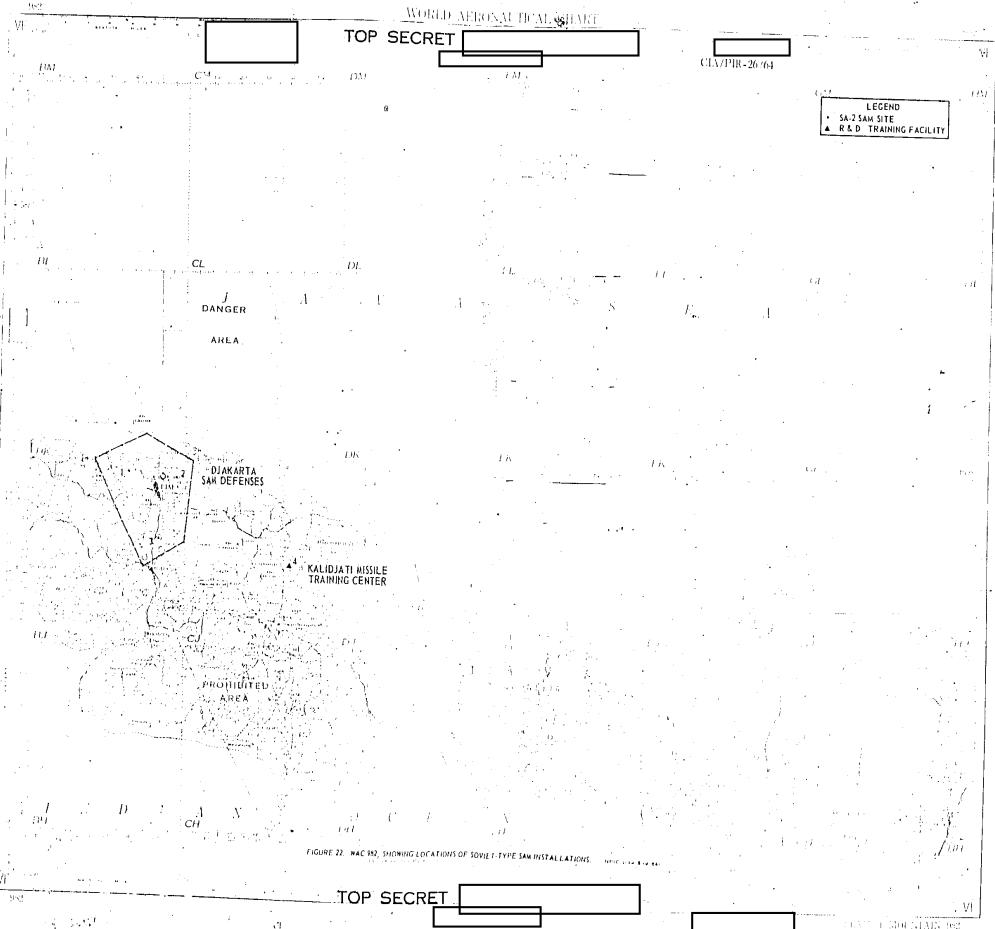
**LEGEND**  
• SA-2 SAM SITE  
▲ R&D TRAINING FACILITY

FIGURE 22. WAC 182, SHOWING LOCATIONS OF SOVIET S-75 SAM INSTALLATIONS.

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CIA PIR 26 64

## REFERENCES

### DOCUMENTS

1. CIA, PIR-3 64, *Soviet-Type SAM Installations*, B.IC's 56, 57, 58, 91, and 92, Jun 64 (TOP SECRET) [redacted]
2. CIA, PIR-3 64, *Soviet-Type SAM Installations*, B.IC's 102, 103, 127, 131, 132, and 133, Jun 64 (TOP SECRET) [redacted]
3. CIA, DIR-7 64, *Soviet-Type SAM Installations*, B.IC's 132, 133, 136, 138, and 139, Mar 64 (TOP SECRET) [redacted]
4. CIA, PIR-11 64, *Soviet-Type SAM Installations*, B.IC's 161, 162, 163, 164, 165, and 166, Mar 64 (TOP SECRET) [redacted]
5. CIA, PIR-11 64, *Soviet-Type SAM Installations*, B.IC's 167, 168, 169, and 170, Apr 64 (TOP SECRET) [redacted]
6. CIA, PIR-15 64, *Soviet-Type SAM Installations*, B.IC's 191, 196, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, May 64 (TOP SECRET) [redacted]
7. CIA, PIR-15 64, *Soviet-Type SAM Installations*, B.IC's 216, 218, 219, 221, 223, 225, 226, 227, 228, 229, 230, 231, 232, Jun 64 (TOP SECRET) [redacted]
8. CIA, PIR-17 64, *Soviet-Type SAM Installations*, B.IC's 231, 232, 233, 234, 235, 236, 237, 238, 239, and 240, Jul 64 (TOP SECRET) [redacted]

### REQUIREMENT

CIA C-RR3-80,733

### PROJECT

C-1580 63 (partial answer)

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